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IS : 5508 (Parts XIV to XVI) - 1975

Indian Standard
GUIDE FOR FISHING GEAR

INDIAN STANDARDS INSTITUTION

AMENDMENT NO. 1 FEBRUARY 1974

TO

IS : 5508 (Parts I to V)-1969 GUIDE FOR FISHING GEAR

PART I GENERAL

Addendum

(*Page* 4, *clause* **A-4.18**) — Add the following new clause after **A-4.18**:

' **A-4.19 Mud Filter** — A piece of netting, of thicker twine and larger mesh size compared to the specifications of the webbing with which the lower belly is fabricated, attached to the bosum of the lower belly in a bottom trawl adjacent to the foot rope for easy filteration of Mud and other sediments that adhere to the lower mouth region while the foot rope scrapes the bottom. '

(TDC 42)

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Indian Standard
GUIDE FOR FISHING GEAR

UDC 639·2·081·1 : 677·664·22

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MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Price Rs **6.00**

March 1976

INDIAN STANDARD GUIDE FOR FISHING GEAR: PART XIV DATA SHEET FOR 325-m PURSE SEINE

NAME OF GEAR : Mackerel and Sardine Seine
TYPE : Purse Seine
COUNTRY : India

MAIN SPECIES CAUGHT : Mackerel and Sardine
FISHING CONDITIONS : Operated up to 40 m Pelagic Shoals of Sardine and Mackerel Located by Visual Observations

LENGTH OF VESSEL : 12 m~13 m
kW : 65

PARTICULARS OF WEBBING

WEBBING	*A*	*B*	*C*	*D*	*E*	*F*	*G*	*H*	*I*	*J*	*K*	*L*
Material	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon
Knot	Single trawl/Reef/Knotless											
Size of netting yarn, denier	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/3/3
Breaking load, kgf	6	6	6	6	6	6	6	6	6	6	6	9
Length of mesh, mm	20	20	20	20	20	20	20	20	20	20	20	30
Upper edge, meshes	1 800	1 800	1 800	1 800	1 800	1 800	2 400	1 800	1 800	1 800	1 800	1 800
Lower edge, meshes	1 800	1 800	1 800	1 800	1 800	1 800	2 400	1 800	1 800	1 800	1 800	1 800
Depth, meshes	1 110	1 300	1 500	1 600	1 750	1 800	2 050	1 800	1 650	1 450	1 350	950
$\frac{\text{Head rope}}{\text{Foot rope}}$	$\frac{25}{26}$	$\frac{25}{26}$	$\frac{25}{26}$	$\frac{25}{26}$	$\frac{25}{26}$	$\frac{25}{26}$	$\frac{35}{37}$	$\frac{25}{26}$	$\frac{25}{26}$	$\frac{25}{26}$	$\frac{25}{26}$	$\frac{40}{43}$
Take up	Selvedge only											
Selvedge	Top: 2·5 meshes deep; Length of mesh — 40 mm Bottom: 5 meshes deep; Length of mesh—60 mm Twine: 210/6/3 denier nylon											
Hanging coefficient	Head rope: 0·73 Foot rope: 0·76 Average more at the bunt, decreasing towards centre											

PARTICULARS OF LINES AND ROPES

LINE/ROPE	HEAD ROPE	FOOT ROPE	PURSE LINE	BICAST LINE	HAUL-IN BRIDLE		RING BRIDLE	LIFTING LINE
					Skiff End Bridle and Line	Wing End Bridle and Line		
Material	HDPE twisted mono-filament	HDPE twisted mono-filament	HDPE twisted mono-filament/ Wire rope	HDPE twisted mono-filament	HDPE twisted mono-filament	HDPE twisted mono-filament	HDPE twisted mono-filament	HDPE twisted mono-filament
Preservation	—	—	—	—	—	—	—	—
Size (diameter), mm	12	12	18/12	12	12	12	12	8
Breaking load, kgf	1 540	1 540	3 000/7 000	1 540	1 540	1 540	1 540	700
Length, m	325	340	—	—	10 and 20	10 and 50	—	—

PARTICULARS OF ACCESSORIES

ACCESSORIES	FLOATS	SINKERS	PURSE RINGS	BUOYS
Number	1 672	704	32	3
Material	Compressed plastic	Lead	12-mm mild steel rod	Plastic
Shape	Spindle/ Cylindrical	—	—	Egg-shaped
Diameter, mm	60/95	12	250	—
Buoyancy, kg	3·0	—	—	—
Mass in air, g	—	225	500	—
Mass in water, g	—	205	435	—
Length, mm	160/75	—	—	—

OTHER INFORMATION

NOTE 1 — IS : 5508 (Part I)-1969 'Guide for fishing gear: Part I General' forms a preface to this part.

NOTE 2 — For terminology on purse seines, *see* Appendix A to Part XVI.

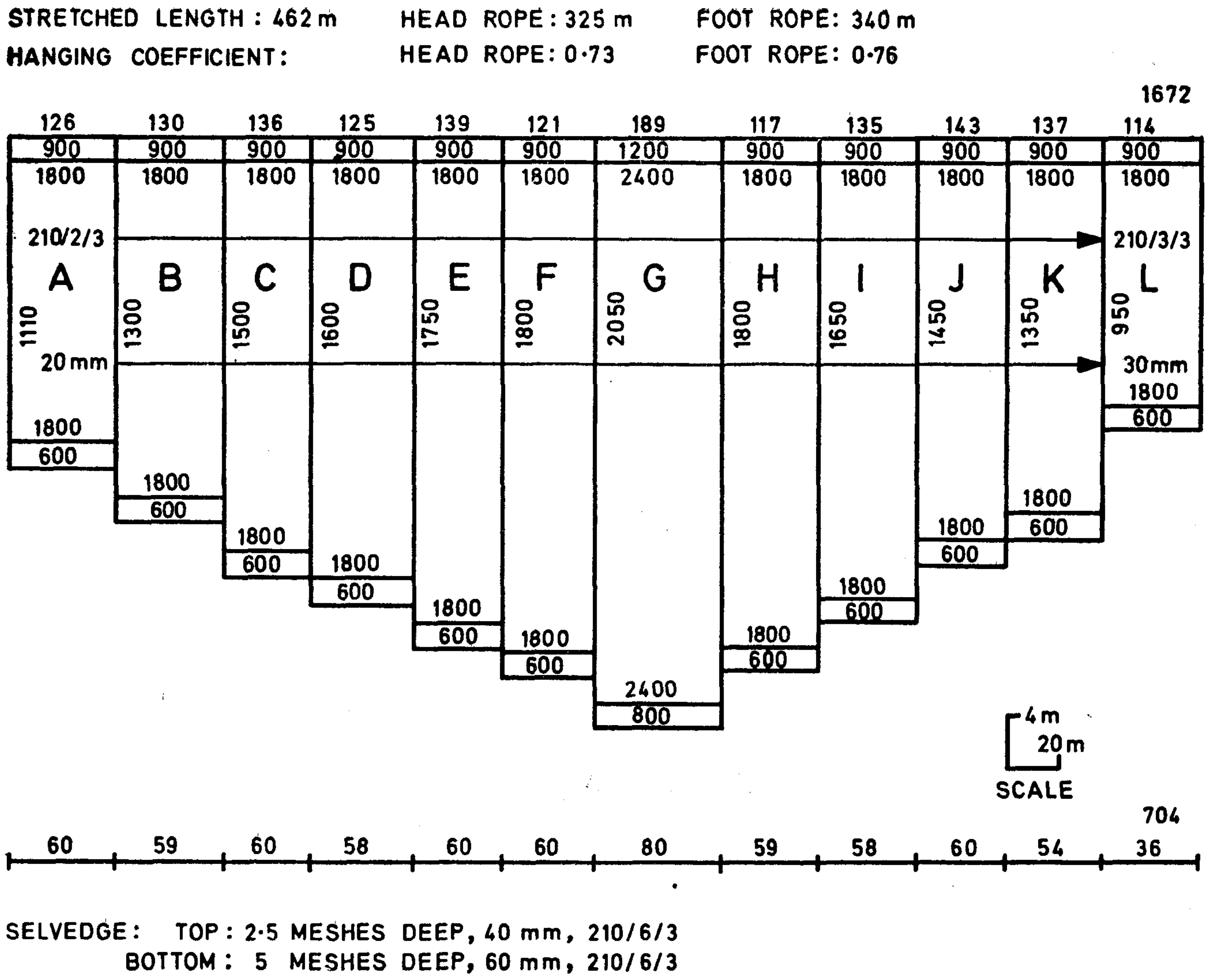


FIG. 1 325-m PURSE SEINE

INDIAN STANDARD GUIDE FOR FISHING GEAR: PART XV DATA SHEET FOR 350-m PURSE SEINE

NAME OF GEAR : Mackerel and Sardine Seine	MAIN SPECIES CAUGHT : Mackerel and Sardine	LENGTH OF VESSEL : 13·5 m~14·5 m
TYPE : Purse Seine	FISHING CONDITIONS : Operated up to 40 m Pelagic Shoals of Sardine and Mackerel Located by Visual Observations	kW : 65
COUNTRY : India		

PARTICULARS OF WEBBING

Webbing	*A*	*B*	*C*	*D*	*E*	*F*	*G*	*H*	*I*	*J*	*K*	*L*	*M*
Material	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon
Knot	Single trawl/Reef/Knotless												
Size of netting yarn, denier	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/3/3
Breaking load, kgf	6	6	6	6	6	6	6	6	6	6	6	6	9
Length of mesh, mm	20	20	20	20	20	20	20	20	20	20	20	20	30
Upper edge, meshes	1 800	1 800	1 800	1 800	1 800	1 800	2 400	1 800	1 800	1 800	1 800	1 800	1 800
Lower edge, meshes	1 800	1 800	1 800	1 800	1 800	1 800	2 400	1 800	1 800	1 800	1 800	1 800	1 800
Depth, meshes	1 100	1 300	1 500	1 600	1 750	1 850	2 050	1 800	1 650	1 450	1 350	1 150	950
$\frac{\text{Head rope}}{\text{Foot rope}}$	$\frac{25}{26}$	$\frac{25}{26}$	$\frac{25}{26}$	$\frac{25}{26}$	$\frac{25}{26}$	$\frac{25}{26}$	$\frac{35}{37}$	$\frac{25}{26}$	$\frac{25}{26}$	$\frac{25}{26}$	$\frac{25}{26}$	$\frac{25}{26}$	$\frac{40}{42}$
Take up	Selvedge only												
Selvedge	Top: 2·5 meshes deep; Length of mesh — 40 mm Bottom: 5 meshes deep; Length of mesh — 40 mm Twine: 210/6/3 denier nylon												
Hanging coefficient	Head rope: 0·73 Foot rope: 0·76 Average more at the bunt, decreasing towards centre												

PARTICULARS OF LINES AND ROPES

Line/Rope	Head Rope	Foot Rope	Purse Line	Bicast Line	Haul-in Bridle		Ring Bridle	Lifting Line
					Skiff End Bridle and Line	Wing End Bridle and Line		
Material	HDPE twisted monofilament	HDPE twisted monofilament	HDPE twisted monofilament/ Wire rope	HDPE twisted monofilament	HDPE twisted monofilament	HDPE twisted monofilament	HDPE twisted monofilament	HDPE twisted monofilament
Preservation	—	—	—	—	—	—	—	—
Size (diameter), mm	12	12	18/12	12	12	12	12	8
Breaking load, kgf	1 540	1 540	3 000/7 000	1 540	1 540	1 540	1 540	700
Length, m	350	365	—	—	10 and 20	10 and 50	—	—

PARTICULARS OF ACCESSORIES

Accessories	Floats	Sinkers	Purse Rings	Buoys
Number	1 732	765	35	3
Material	Compressed plastic	Lead	Mild steel rod	Plastic
Shape	Spindle/ Cylindrical	—	—	Egg-shaped
Diameter, mm	60/95	12	250	—
Mass in air, g	—	225	500	—
Mass in water, g	—	205	435	—
Length, mm	60/75	—	—	—

OTHER INFORMATION

NOTE 1 — IS: 5508 (Part I)-1969 'Guide for fishing gear: Part I General' forms a preface to this part.

NOTE 2 — For terminology on purse seines, *see* Appendix A to Part XVI.

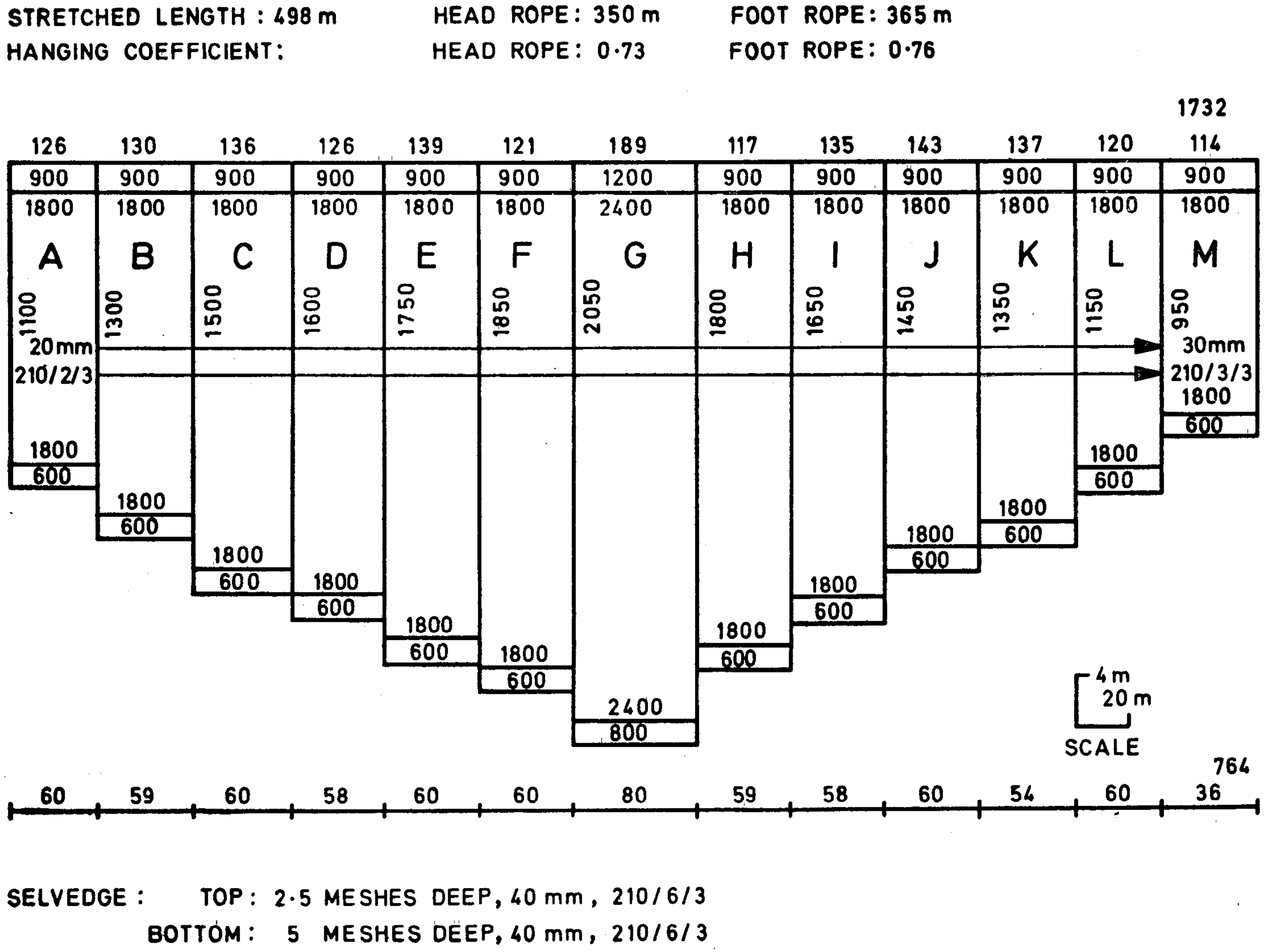


Fig. 1 350-m Purse Seine

INDIAN STANDARD GUIDE FOR FISHING GEAR: PART XVI DATA SHEET FOR 450-m PURSE SEINE

NAME OF GEAR : Mackerel and Sardine Seine
TYPE : Purse Seine
COUNTRY : India

MAIN SPECIES CAUGHT : Mackerel and Sardine
FISHING CONDITIONS : Operated up to 40 m Pelagic Shoals of Sardine and Mackerel Located by Visual Observations

LENGTH OF VESSEL : 15 m
kW : 75

PARTICULARS OF WEBBING

Webbing	*A*	*B*	*C*	*D*	*E*	*F*	*G*	*H*	*I*	*J*	*K*	*L*	*M*	*N*
Material	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon
Knot	Single trawl/Reef/Knotless													
Size of netting yarn, denier	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/2/3	210/3/3
Breaking load, kgf	6	6	6	6	6	6	6	6	6	6	6	6	6	9
Length of mesh, mm	20	20	20	20	20	20	20	20	20	20	20	20	20	30
Upper edge, meshes	2 040	2 040	2 040	2 040	2 040	2 040	3 000	2 040	2 040	2 040	2 040	2 040	2 040	2 040
Lower edge, meshes	2 040	2 040	2 040	2 040	2 040	2 040	3 000	2 040	2 040	2 040	2 040	2 040	2 040	2 040
Depth, meshes	1 400	1 550	1 700	1 850	1 950	2 050	2 250	2 050	1 950	1 800	1 650	1 450	1 300	1 150
Head rope / Foot rope	35/31·5	30/31·5	30/31·5	30/31·5	30/31·5	30/31·5	44/45	30/31·5	30/31·5	30/31·5	30/31·5	30/31·5	30/31·5	46/47
Take up	Selvedge only													
Selvedge	Top: 2·5 meshes deep; Length of mesh — 40 mm Bottom: 5 meshes deep; Length of mesh — 60 mm Twine: 210/6/3 denier nylon													
Hanging coefficient	Head rope: 0·70 Foot rope: 0·76 Average more at the bunt, decreasing towards centre													

PARTICULARS OF LINES AND ROPES

Line/Rope	Head Rope	Foot Rope	Purse Line	Bicast Line	Haul-in Bridle		Ring Bridle	Lifting Line
					Skiff End Bridle and Line	Wing End Bridle and Line		
Material	HDPE twisted monofilament	HDPE twisted monofilament	HDPE twisted monofilament/ Wire rope	HDPE twisted monofilament	HDPE twisted monofilament	HDPE twisted monofilament	HDPE twisted monofilament	HDPE twisted monofilament
Preservation	—	—	—	—	—	—	—	—
Size (diameter), mm	12	12	18/12	12	12	12	12	8
Breaking load, kgf	1 540	1 540	3 000/7 000	1 540	1 540	1 540	1 540	700
Length, m	450	470	—	—	10 and 20	10 and 50	—	—

PARTICULARS OF ACCESSORIES

Accessories	Floats	Sinkers	Purse Rings	Buoys
Number	1 976	992	45	3
Material	Compressed plastic	Lead	Mild steel rod	Plastic
Shape	Spindle/ Cylindrical	—	—	Egg-shaped
Diameter, mm	60/95	12	250	—
Mass in air, g	—	225	500	—
Mass in water, g	—	205	435	—

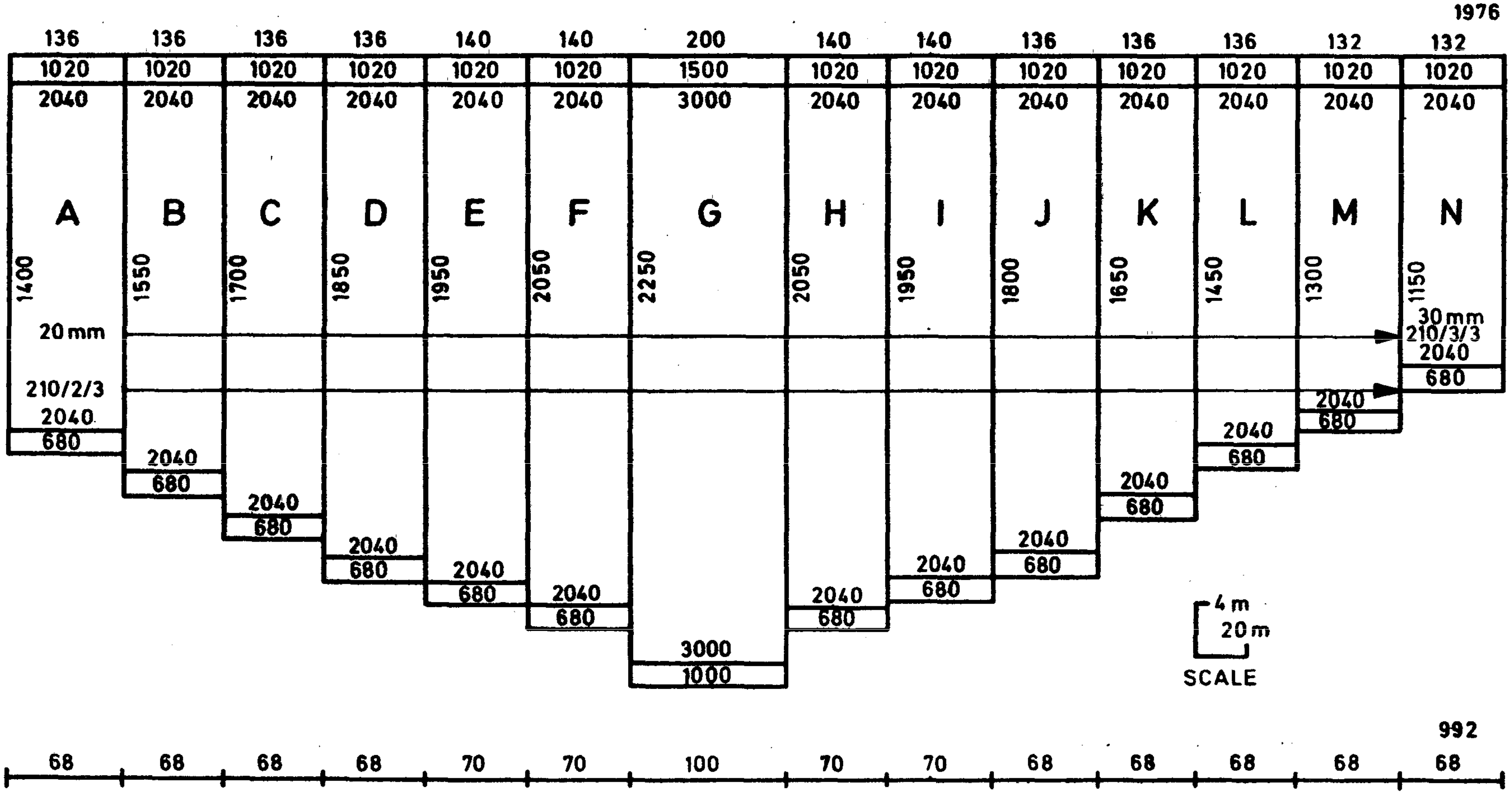
OTHER INFORMATION

NOTE 1 — IS : 5508 (Part I)-1969 'Guide for fishing gear: Part I General' forms a preface to this part.

NOTE 2 — For terminology on purse seines, *see* Appendix A to this part.

STRETCHED LENGTH : 610·8 m HEAD ROPE : 450 m FOOT ROPE : 470 m

HANGING COEFFICIENT : HEAD ROPE : 0·70 FOOT ROPE : 0·76



SELVEDGE : TOP : 2·5 MESHES DEEP, 40 mm, 210/6/3
BOTTOM : 5 MESHES DEEP, 60 mm, 210/6/3

FIG. 1 450-m PURSE SEINE

APPENDIX A

GLOSSARY OF TERMS RELATING TO PURSE SEINES

Purse Seine — A long wall of webbing without prominent bunt or bag that is with very little fullness and with the webbing hanging nearly straight down between the float and head lines. The essential feature of the net is the pursing by pulling a purse line, which is threaded through rings, along the bottom of the net.

A purse seine has generally three broad divisions, namely, main body, wing and bunt, each of which cannot be demarcated separately.

Main Body — The portion which forms the bulk of the net and lies in between the wing and the bunt.

Bunt — The end which is shot first and hauled up when the catch is accumulated for brailing and is made of stronger webbing. It is a small portion of the net, say one or two panels, and is shorter in depth than the other panels.

Wing — The end of the net which is shot last and hauled up first.

Selvedge — A definite number of rows of meshes at the upper and lower borders and at extremities of the webbing fabricated with twines thicker than those of the main webbing.

Head Rope — The rope or line to which the upper edge of the net is finally attached.

Foot Rope — The rope or line to which the lower edge of the net is attached.

Float Line — The line attached to head rope through which the floats are threaded in.

Lead Line — The line attached to the foot rope through which the sinkers are threaded in.

Purse Line — The line passing through the purse rings, the hauling of which effects the closing of the net.

Breast Line — This is the float line carried beyond the upper corner of the net to form a loop spliced heavily or lashed at its base, then extended down the end of webbing to the lower corner of the net. Frequently it is extended back along the lead line.

Bridles

a) *Haul-in bridles* (*skiff end bridle and line, and wing end bridle and line*) — Pairs of ropes attached to the head rope and foot rope of the bunt and wing ends forming a triangle and connected to the skiff and boat respectively by single lines.

b) *Ring bridle* — The rope connecting each purse ring with the foot rope either one or if two forming a triangle, in the latter case the apex angle is less than 60°. This enables easy and effective pursing.

Purse Rings — Rings attached to the foot rope at equal intervals according to the length of the net.

Lifting Line — The line used for lifting a group of floats of limited number while in operation if required and during hauling.

Brail — A long-handled dip net.

Brailing — Dipping or landing of fish out of the net into the fishing boat. The term is also used for landing of fish from the boat to the cannery or the jetty.

Skiff — A small boat usually 6 to 8 m long, operated along with a purse seiner to help in pursing the corks and to hold up the outer side of the landing bag for brailing the catch.

INDIAN STANDARDS

ON

TEXTILE MATERIALS FOR FISHING PURPOSES

IS:

4401-1967 Nylon fish net twines

4402-1967 Glossary of terms relating to netting for fishing — Basic terms

4640-1968 Method of designating netting yarns in the tex system

4641-1968 Method of describing and designating knotted netting for fishing nets

4945 (Part I)-1968 Cotton twines for fish nets: Part I Twines for gill nets

4945 (Part II)-1968 Cotton twines for fish nets: Part II Twines for trawl nets

5508 (Parts I to V)-1969 Guide for fishing gear:
  Part I General
  Part II Data sheet for 11·40-m two-seam cotton trawl net
  Part III Data sheet for 13-m two-seam cotton trawl net
  Part IV Data sheet for 18·25-m two-seam cotton trawl net
  Part V Data sheet for 26-m two-seam cotton trawl net

5508 (Parts VI to XIII)-1972 Guide for fishing gear:
  Part VI 13·68-m four-seam shrimp trawl net
  Part VII 18-m four-seam trawl net
  Part VIII 22-m four-seam shrimp trawl net
  Part IX 33-m four-seam trawl net
  Part X Data sheet for seer gill net
  Part XI Data sheet for silver pomfret gill net
  Part XII Data sheet for sardine gill net
  Part XIII Data sheet for framed gill net for inland water

5508 (Parts XIV to XVI)-1975 Guide for fishing gear:
  Part XIV Data sheet for 325-m purse seine
  Part XV Data sheet for 350-m purse seine
  Part XVI Data sheet for 450-m purse seine

5815 (Part I)-1971 Methods of test for fishing gear materials: Part I Determination of thickness

5815 (Part II)-1970 Methods of test for fishing gear materials: Part II Determination of linear density (mass per unit length)

5815 (Part III)-1970 Methods of test for fishing gear materials: Part III Determination of twist

5815 (Part IV)-1971 Methods of test for fishing gear materials: Part IV Determination of breaking load and knot breaking load

5815 (Part V)-1971 Methods of test for fishing gear materials: Part V Determination of mesh breaking load

6347-1971 Polyethylene monofilament twines for fishing

6348-1971 Basic terms for hanging of netting

6920-1972 Method of cutting knotted netting to shape (tapering)

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